

## ABSTRACT

Micro-filter device and method of design therefore, for optimising the same for use in a situation in which at different flows of oil through the device (1), different  
5 pressure differences  $P_d$  over the device (1) are allowed, comprising the steps of determining the minimum cross section of a restriction (26) for allowing a minimum amount of flow of oil for by-passing a micro-filter element (7), required for attaining a given maximum pressure difference ( $P_2$ ) over the device at a lowest given amount of flow of oil; limiting the maximum  $P_d$  to that of a largest given amount of flow through  
10 the device (1) by the use of a pressure valve system (22) opening once said maximum pressure difference ( $P_1$ ) has been reached. The device (1) is provided with both an orifice (26) and a pressure valve system (22) allowing a flow of oil by-passing the filter element (7).